

IN THE CLAIMS

Amend the claims as follows.

1. (Currently Amended) A gene transfer vector which contains
 - a) a transgene consisting of a therapeutic gene or a suicide gene and
 - b) a nucleic acid sequence coding for a CD34 surface marker or a fragment of the same or a variant of the same, wherein
said surface marker or fragment or variant is expressible as a surface marker and is identifiable by an antibody against a CD34 detection method.

2. (Currently Amended) The vector according to claim 1, wherein the nucleic acid sequence codes for a surface marker comprising SEQ ID NO:2, 4 or 6, or for a fragment of SEQ ID NO:2, 4 or 6, or for a variant of SEQ ID NO:2, 4 or 6, said surface marker or fragment or variant being expressible as a surface marker and being identifiable by a an antibody against CD34 detection method.

3. (Currently Amended) The vector according to Claim 1, wherein the nucleic acid sequence comprises SEQ ID NO: 1, 3 or 5, or a fragment of SEQ ID NO: 1, 3 or 5, a ~~mutant of SEQ ID NO: 1, 3 or 5,~~ or a variant of SEQ ID NO: 1, 3 or 5, said fragment or ~~mutant~~ or variant coding for an amino acid sequence which is expressible as a surface marker and is identifiable by a an antibody against CD34 detection method.

4. (Previously Amended) The vector according to Claim 1, wherein the vector is a retroviral vector.

5. (Previously Amended) The vector according to Claim 1, further comprising a second nucleic acid sequence coding for a second surface marker.

6. (Allowed) A vector with the accession no. DSM 13396.

7. (Currently Amended) A vector comprising a nucleic acid sequence coding for an amino acid sequence comprising SEQ ID NO:6, or for a fragment of SEQ ID NO:6, or for a variant of SEQ ID NO:6, wherein said fragment or variant is identifiable by a an antibody against CD34 ~~detection method~~.

8. (Currently Amended) A vector comprising a nucleic acid sequence-comprising SEQ ID NO:5, or a fragment of SEQ ID NO:5, ~~or a mutant of SEQ ID NO:5~~, or a variant of SEQ ID NO:5, wherein said fragment or mutant or variant codes for a CD34 surface marker which is identifiable by an antibody against a CD34 ~~detection method~~.

9. (Previously Amended) An isolated host cell comprising a vector according to Claim 1.

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10. (Previously Amended) The isolated host cell according to claim 9, wherein said host cell is a human cell.

11. (Previously Amended) The isolated host cell according to claim 10, wherein said cell is a T-lymphocyte.

Claims 12-34 (Canceled).